PTO/SB/21 (08-00)

TDANGMITTAL		Application Number	10/614,313
# IIVANONIII IAL	ı	Filing Date	July 7, 2003
FORM		First Named Inventor	Pekonen
to be used for all correspondence after in	nitial filing)	Group Art Unit	2681
		Examiner Name	Unassigned
Total Number of Pages in This Submission		Attorney Docket Number	04770.00116
	ENCLO	OSURES (check all that apply	
Fee Transmittal Form		ment Papers Application)	After Allowance Communication Group
Fee Attached	☐ Drawin	g(s)	Appeal Communication to Board Appeals and Interferences
Amendment / Response	Licensi	ng-related Papers	Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
After Final	Petition	1	Proprietary Information
Affidavits/declaration(s)	_	n to Convert to a onal Application	Status Letter
Extension of Time Request		of Attorney, Revocation e of Correspondence Address	Other Enclosure(s) (please identify below):
Express Abandonment Request		al Disclaimer	PTO/SB/08A 51 References
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Response to Missing Parts/ Incomplete Application	correspon	missioner is authorized to dence to Deposit Account	charge any fees in connection with No. 19-0733. A duplicate of this sh
Response to Missing Parts under 37 CFR 1.52 or 1.53	enclosed. Express M	ail No. EV 305251366 US	
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Firm Kenneth F. Smolik or Individual name Banner & Witcoff, I			
Signature Himme	17,	Smock	
Date November 10, 200		V	

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By:_

Pekonen, U.S. Patent Application No. 10/614,313 for "PROTOCOL USING FORWARD ERROR CORRECTION TO IMPROVE HANDOVER"

- Transmittal Form (in duplicate)
- Information Disclosure Statement (4 pages)
- PTO/SB/08A·(2 pages)
- 51 References
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE (Attorney Docket No. 004770.00116)

In re Peko	U.S. Patent Application of Harri nen)	
Appl	ication No. 10/614,313)	Group Art Unit: 2681
Filed	: July 7, 2003)	Examiner: Unassigned
For:	PROTOCOL USING FORWARD ERROR CORRECTION TO IMPROVE HANDOVER)	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Pursuant to 37 CFR §§1.97 and 1.98, the Applicant wishes to make the following references of record in the above-identified application. This Information Disclosure Statement is in compliance with the continuing duty of candor as set forth in 37 CFR §1.56. Copies of the references cited below are enclosed. The references are also listed on the enclosed and completed Form PTO/SB/08A.

This Information Disclosure Statement is filed under 37 CFR §1.97(b) before the mailing date of a first Office Action on the merits. Accordingly, there is no fee due for filing this Information Disclosure Statement. However, if it is determined that a fee is due, the Commissioner is authorized to charge or credit any fees associated with this paper to Deposit Account No. 19-0733.

Under 37 CFR §1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made.

Under 37 CFR §1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the cited references are, or are considered to be, material to patentability as defined in 37 CFR §1.56(b).

The present patent application is related to the following co-pending patent applications: 10/087,437; 10/085,910; 10/075,150; 10/075,434; 10/237,404; and 10/252,549.

U.S. References

Inventor	Application/ Patent No.	Issued
Salo, et. al.	2002/0010763 A1	01/24/2002
Kawamata, et. al.	2002/0025777 A1	02/28/2002
Arsenault, et. al.	2003/0067943 A1	04/10/2003
Leslie, et. al.	4,449,248	05/15/1984
Harte	5,224,152	06/29/1993
Castelain, et. al.	5,307,376	04/26/1994
Fischer	5,371,734	12/06/1994
Jonsson, et. al.	5,513,246	04/30/1996
Yli-Kotila, et. al.	5,539,925	07/23/1996
Croft, et. al.	5,568,513	10/22/1996
Kivari, et. al.	5,613,235	03/18/1997
Takahashi, et. al.	5,657,313	08/12/1997
Pastenak, et. al.	5,710,756	01/20/1998
Takahashi, et. al.	5,732,068	03/24/1998
Kallin	5,745,860	04/28/1998
Baggen	5,799,033	08/25/1998
Tuutijarvi, et. al.	5,870,675	02/09/1999
Dahlman, et. al.	5,883,899	03/16/1999
Arsenault, et. al.	5,886,995	03/23/1999
Lardennois	5,995,845	11/30/1999
Suonvieri	6,047,181	04/04/2000
Ott	6,088,412	07/11/2000
Hamalainen, et. al.	6,167,248	12/26/2000

Inventor	Application/ Patent No.	Issued
Diachina, et. al.	6,175,557	01/16/2001
Bursztejn, et. al.	6,226,278	05/01/2001
Oshima	6,256,357	07/03/2001
Donahue et. al.	6,262,982	07/17/2001
Ejiri	6,262,990	07/17/2001
Kataoka, et. al.	6,282,209	08/28/2001
Sharma	6,285,686	09/04/2001
Lyer	6,295,450	09/25/2001
Twitchell, et. al.	6,335,766	01/01/2002
Hansson, et. al.	6,339,713	01/15/2002
Rakib, et. al.	6,356,555	03/12/2002
Mansfield, et. al.	6,477,382	11/05/2002
Nazarathy, et. al.	6,490,727	12/03/2002

Foreign Patent Document

Document No.	Publication Date
WO 00/67449	11/09/2000
WO 00/36861	06/22/2000
WO 01/72076	09/27/2001
WO 01/31963	05/03/2001
WO 02/03729	01/10/2002
WO 02/03728	01/10/2002
WO 02/01879	01/03/2002

Other Prior Art

Apostolis K. Salkintzis et al. 'An In-Band Power-Saving Protocol for Mobile Data Networks' IEEE Transactions on Communications, Vol. 46, No.9, Sept. 1998, pgs. 1194-1205.

- Apostolis K. Salkintzis et al. 'Performance Analysis of a Downlink Mac Protocol with Power-Saving Support", IEEE Transactions on Vehicular Technology, Vol. 49, No.3, May 2000, pages 1029-1040
- DEERING S., Host Extensions for IP Multicasting, Network Working Group, August 1989, 1-16, Stanford, California
- Digital Video Broadcasting (DVB); DVB Specification for Data Broadcasting, European Telecommunications Standard Institute, January 2003, 1-58, ETSI EN 301 192 v1.3.1, France.
- Digital Video Broadcasting (DVB); Specification for Service Information (SI) in DVB Systems, European Telecommunications Standard Institute, May 2003, 1-93, ETSI EN 300 468 v.1.5.1, France.
- Draft Report of the 52nd Meeting of DVB GBS, EBU Headquarters, Geneva, June 25"'J27" 2002. pages 1-12.
- RFC3452: Forward Error Correction (FEC) Building Block, captured February 26, 2003, http://rfc3452.x42.com.
- RFC3453: The Use of Forward Error Correction (FEC) in Reliable Multicast, captured February 26, 2003, http://rfc3453.x42.com.

Date: November 10, 2003

Respectfully submitted,

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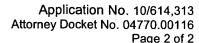
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Substitute	for form 1449A/PTC)		Complete if Known		
				Application Number	10/614,313	
INFORMATION DISCLOSURE				Filing Date	July 7, 2003	
STATEMENT BY APPLICANT		First Named Inventor	Pekonen			
				Art Unit	2681	
	(use as many she	ets as	necessary)	Examiner Name	Unassigned	
Sheet	1	of	2	Attorney Docket Number	04770.00116	

U.S. PATENT DOCUMENTS Document Number Name of Patentee or Applicant of							
Examiner Initials *	Cite No. ¹	Cite No. ¹	Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Cited Document	Pages, Columns, Lines, Where Relevan Passages or Relevant Figures Appear	
		2002/0010763 A1	01/24/2002	Salo, et al.			
		2002/0025777 A1	02/28/2002	Kawamata, et al.			
	l	2003/0067943 A1	04/10/2003	Arsenault, et al.			
		US 4,449,248	05/15/1984	Leslie, et al.			
		US 5,224,152	06/29/1993	Harte			
		US 5,307,376	04/26/1994	Castelain, et al.			
		US 5,371,734	12/06/1994	Fischer			
		US 5,513,246	04/30/1996	Jonsson, et al.			
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		US 5,568,513	10/22/1996	Croft, et al.			
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		US 5,657,313	08/12/1997	Takahashi, et al.			
		US 5,710,756	01/20/1998	Pasternak, et al.	- ,		
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		US 5,745,860	04/28/1998	Kallin			
	1	US 5,799,033	08/25/1998	Baggen			
		US 5,870,675	02/09/1999	Tuutijarvi, et al.			
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		US 5,995,845	11/30/1999	Lardennois			
		US 6,047,181	04/04/2000	Suonvieri			
		US 6,088,412	07/11/2000	Ott			
		US 6,167,248	12/26/2000	Hamalainen, et. al.			
		US 6,175,557	01/16/2001	Diachina, et al.			
		US 6,226,278	05/01/2001	Bursztejn, et al.			
		US 6,256,357	07/03/2001	Oshima			
		US 6,262,982	07/17/2001	Donahue, et al.			
		US 6,262,990	07/17/2001	Ejiri			
		US 6,282,209	08/28/2001	Kataoka, et al.			
		US 6,285,686	09/04/2001	Sharma			
		US 6,295,450	09/25/2001	Lyer			
		US 6,335,766	01/01/2002	Twitchell, et al.			
		US 6,339,713	01/15/2002	Hansson, et al.			
		US 6,356,555	03/12/2002	Rakib, et al.	/ * .		
		US 6,477,382	11/05/2002	Mansfield, et al.			
		US 6,490,727	12/03/2002	Nazarathy, et al.			





	FOREIGN PATENT DOCUMENTS						
- · · · · · · · · · · · · · · · · · · ·	674-	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
Examiner Initials*	Cite No. ¹	Country Code ³ - Number ⁴ - Kind Code ⁵ (<i>if known</i>)	Publication Date MM-DD-YYYY			T⁵	
		WO 00/67449	11/09/2000				
		WO 00/36861	06/22/2000				
		WO 01/72076	09/27/2001	_			
		WO 01/31963	05/03/2001	_			
		WO 02/03729	01/10/2002				
		WO 02/03728	01/10/2002				
		WO 02/01879	01/03/2002				

Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ [‡]
		Apostolis K. Salkintzis et al. 'An In-Band Power-Saving Protocol for Mobile Data Networks' IEEE Transactions on Communications, Vol. 46, No.9, Sept. 1998, pgs. 1194-1205.	
		Apostolis K. Salkintzis et al. 'Performance Analysis of a Downlink Mac Protocol with Power-Saving Support", IEEE Transactions on Vehicular Technology, Vol. 49, No.3, May 2000, pages 1029-1040	
		DEERING S., Host Extensions for IP Multicasting, Network Working Group, August 1989, 1-16, Stanford, California	
		Digital Video Broadcasting (DVB); DVB Specification for Data Broadcasting, European Telecommunications Standard Institute, January 2003, 1-58, ETSI EN 301 192 v1.3.1, France.	
		Digital Video Broadcasting (DVB); Specification for Service Information (SI) in DVB Systems, European Telecommunications Standard Institute, May 2003, 1-93, ETSI EN 300 468 v.1.5.1, France.	
		Draft Report of the 52nd Meeting of DVB GBS, EBU Headquarters, Geneva, June 25"J27" 2002. pages 1-12.	
		RFC3452: Forward Error Correction (FEC) Building Block, captured February 26, 2003, http://rfc3452.x42.com.	
		RFC3453: The Use of Forward Error Correction (FEC) in Reliable Multicast, captured February 26, 2003, http://rfc3453.x42.com	

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